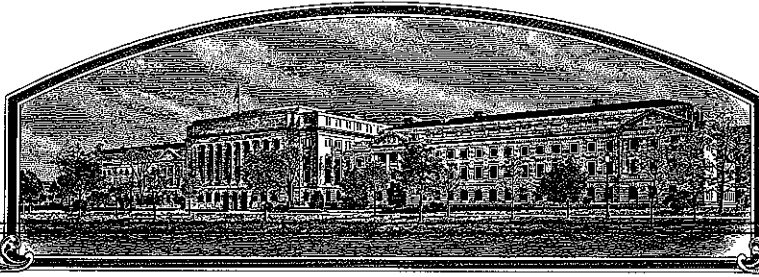


No.

200500036



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Montana State University

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture


AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.


NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SAFFLOWER

'Nutrasaff'

In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this twenty-sixth day of July,
in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service


Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Montana State University		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 91B3842		3. VARIETY NAME Nutrasaff	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Technology Transfer Office 900 Technology Blvd, Suite 1 Bozeman, MT 59718 <i>304 Montana Hall P.O. Box 172460 Bozeman, MT 59717 (BT: 6/8/2005 per applicant's authorization)</i>		5. TELEPHONE (include area code) (406) 994-2752		FOR OFFICIAL USE ONLY PVPO NUMBER 200500036 FILING DATE December 14, 2004	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) university		6. FAX (include area code) 4152 (406) 994-2893 (BT: 6/8/2005)			
8. IF INCORPORATED, GIVE STATE OF INCORPORATION MT		9. DATE OF INCORPORATION Not Applicable			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Rebecca W. Mahurin, Ph.D. Director, Office of Technology Transfer 900 Technology Blvd, Suite 1 Bozeman, MT 59718 <i>304 Montana Hall; P.O. Box 172460 Bozeman, MT 59717 (BT: 6/8/2005 per applicant's authorization)</i>				FILING AND EXAMINATION FEES: \$ 3652.00 DATE 12/14/04 CERTIFICATION FEE: \$ 432.00 DATE 6/8/2005	
11. TELEPHONE (include area code) (406) 994-2752		12. FAX (include area code) (406) 994-2893 4152 (BT: 6/8/2005)		13. E-MAIL research@montana.edu	
14. CROP KIND (Common Name) Safflower		16. FAMILY NAME (Botanical) Compositae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Carthamus tinctorius L.		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input type="checkbox"/> NO (If "no", go to item 23) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (BT: 6/8/2005 per applicant's authorization) IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER <i>Rebecca W. Mahurin</i>		SIGNATURE OF OWNER			
NAME (Please print or type) Rebecca W. Mahurin, Ph.D.		NAME (Please print or type)			
CAPACITY OR TITLE Director		DATE 12/06/2004		CAPACITY OR TITLE DATE	

(See reverse for instructions and information collection burden statement)

Exhibit A: Origin and Breeding History of '91B3842' (Nutrasaff) Safflower

91B3842 (Nutrasaff) and was derived from a single F₁₁ plant selection from a 1981 multi-cross involving 'USB', 'PI 195895', 'Cargill 1653', 'Sidney Selection 87-42-3', and 'S-541' x a multi-cross involving 'Sidney Selection 87-42-3', 'AC-1', 'Sidney Selection 88-74-2', 'N-10', 'Mexican dwarf-2', 'ol35-1', 'PCM-1', and 'Arizona Pigmentless'.

USB is a normal hull linoleic oil type cultivar with resistance to *Phytophthora* root rot [caused by *Phytophthora dreschstri* (Tucker)]. Cargill 1653 is a white normal hull linoleic oil type selection made in California by Cargill, Inc. Sidney Selection 87-42-3 and Sidney Selection 88-74-2 are 1965 selections made at Sidney, MT for resistance to *Alternaria* leaf spot [caused by *Alternaria carthami* (Chow)]. These selections were made from the 1964 bulk composite of 555 safflower introductions from the 1960 world safflower collection. S-541 was developed by Seedtec International, Woodland, California and is a striped hull, linoleic acid variety. AC-1 is a linoleic oil type cultivar with a purple-striped hull and high seed oil content developed at the University of Arizona. N-10 is a white normal hull linoleic oil variety developed and released by the Nebraska Experiment Station in 1953 as an early maturing variety. Mexican dwarf-2 is a dwarf mutant selection of Indian origin obtained from the USDA world collection in 1972-73 season in Valle del Furte, Sinaloa, Mexico. ol35-1 is an oleic acid type selection for reduced hull content made in 1974 by the USDA-ARS at Shafter, California. PCM-1 is a rust resistant F₃ selection released by the USDA-ARS, Logan, Utah in 1970 from the cross PI195895 x Frio and possesses the M gene for resistance to both seedling and foliage rust. Arizona pigmentless is an experimental line obtained in 1980 from Dr. Dave Rubis, Arizona Agricultural Experiment Station with the pigmentless gene (pp) which prevents the formation of the pigmented melanin layer in the pericarp of the seed.

Recurrent selection for high seed oil, high meal protein, reduced hull content, and high linoleic fatty acid composition was practiced in the breeding of 91B3842 (Nutrasaff). Individual plant selections were made during the F₂, F₃, F₄, F₅, F₆, F₇, and F₈ generations.

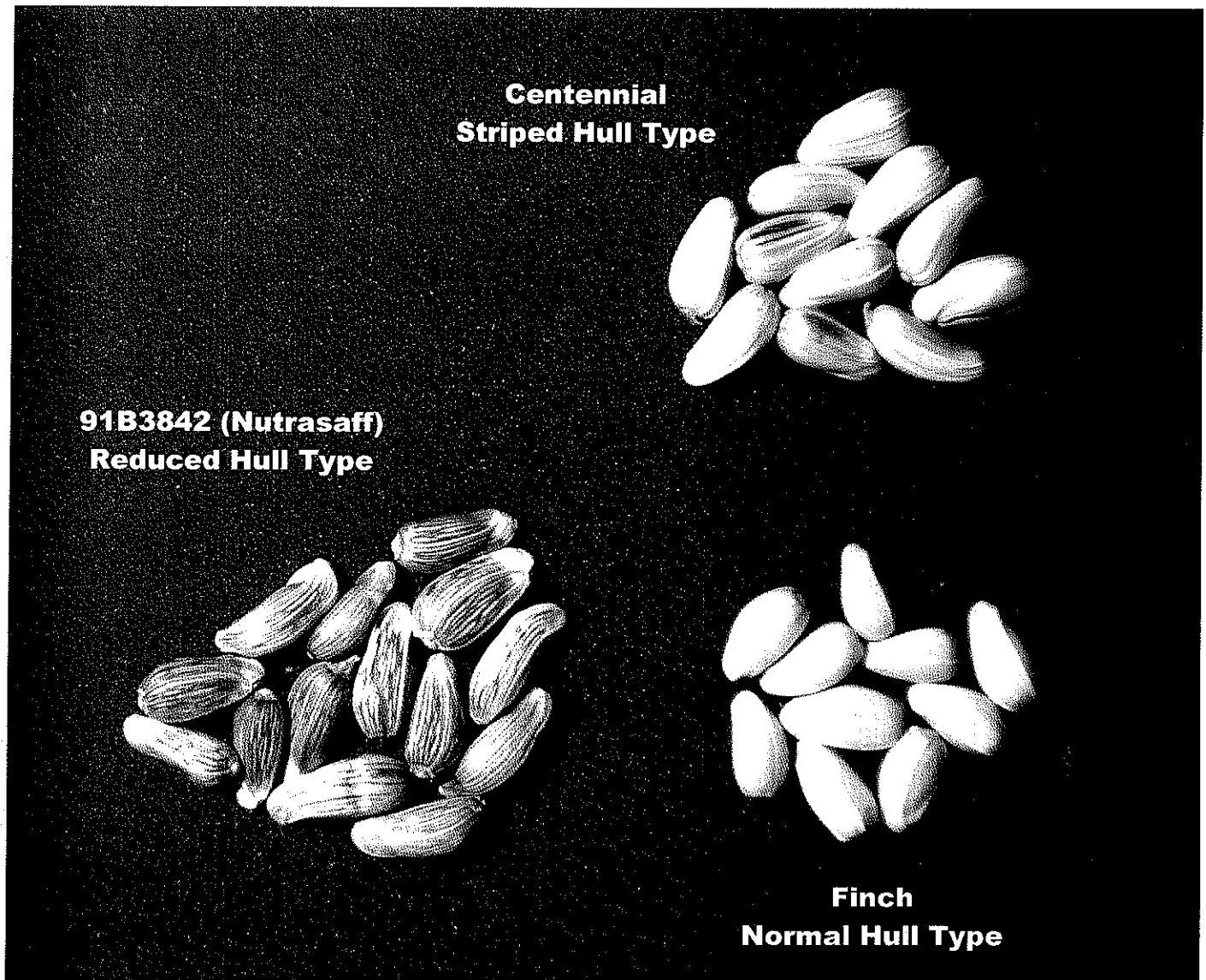
91B3842 (Nutrasaff) Safflower Descriptors

Leaf Shape	-	Lanceolate
Leaf Margin	-	Entire
Leaf Spines	-	Intermediate Spineless
Leaf Hairiness	-	Non-Hairy
Branch Angle	-	Intermediate 20° to 60°
Branch Location	-	Predominantly on the Upper Third of the Plant
Spine Length on Outer Involucral Bract (OIB)	-	2.8 mm
Spine Location on OIB	-	Tip and Few Basal
Number of Spines on OIB	-	Intermediate
OIB Attitude	-	Open
Diameter of Primary Head	-	31 mm (average)

91B3842 (Nutrasaff) has been stable and uniform through three generations of the breeder seed increase program. Seeds of 91B3842 have a predominantly reduced hull with an occasional white hull (<1/100). *variant.*

Exhibit B: Statement of Distinctness

The most similar safflower varieties to 91B3842 (Nutrasaff) are Finch and Centennial. All of these varieties are high linoleic oil type varieties, however, 91B3842 (Nutrasaff) as shown in the descriptive information in Exhibit D has a higher seed oil content, a higher meal protein content, a lower wholeseed fiber content than both Finch or Centennial and improved disease resistance to *Alternaria* leaf spot compared to Centennial. 91B3842 (Nutrasaff) also exhibits a reduced hull seed type whereas Finch has a white normal hull type and Centennial has a striped hull seed type (see below).



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Safflower)

OBJECTIVE DESCRIPTION OF VARIETY
SAFFLOWER (CARTHAMUS TINCTORIUS)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Montana State University

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Technology Transfer Office

900 Technology Blvd, Suite 1304 Montana Hall

(BT:6/8/2005) Bozeman, MT 59718 P.O. BOX 172460, Bozeman, MT 59717

FOR OFFICIAL USE ONLY

PVPO NUMBER

200500036

VARIETY NAME OR TEMPORARY DESIGNATION

Nutrasaff

get 4/5/05

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. MATURITY (From Emergence):

Location: 1 = CALIFORNIA & ARIZONA 2 = MIDWEST

NO. OF DAYS TO MATURITY

NO. OF DAYS EARLIER THAN ...

NO. OF DAYS LATER THAN ...

1 = GILA 2 = FRIO 3 = US-10 4 = Centennial

Maturity Class: 1 = EARLY (less than 110 days) 2 = MEDIUM EARLY (110 to 120 days)
3 = MEDIUM LATE (121 to 130 days) 4 = LATE (more than 130 days)

2. PLANT HEIGHT AT MATURITY:

CM. HEIGHT

CM. SHORTER THAN ...

CM. TALLER THAN ...

1 = GILA 2 = FRIO 3 = US-10
4 = Centennial

3. FLOWER COLOR:

Type: Fresh Flower Wilted Flower
01 = WHITE GREYISH-WHITE
02 = LIGHT YELLOW GREYISH-WHITE
03 = LIGHT-ORANGE BASE ORANGE BASE
04 = YELLOW YELLOW (US-10)
05 = YELLOW LIGHT ORANGE BASE
06 = YELLOW ORANGE (Gila)

Fresh Flower Wilted Flower
07 = ORANGE LIGHT RED
08 = REDDISH ORANGE DEEP RED
09 = YELLOW BASE & TIPS
OF LOBES ORANGE ORANGE
10 = PALE-YELLOW PALE-YELLOW
11 = OTHER (Specify)

4. SPINES ON INVOLUCRAL BRACTS:

1 = ABSENT 2 = PRESENT

Location: 1 = TIP ONLY 2 = TIP & FEW BASAL 3 = TIP & ALONG MARGINS 4 = MARGINS ONLY

MM. LENGTH (A)

NUMBER (B)

SPINE INDEX (A x B)

Spine Index Class: 1 = 0-20 2 = 21-40 3 = 41-60 4 = 61-80 5 = 81-100 6 = 101-120

5. HEADS (For Plant Populations of 593,000 Plants/Hectare):

MM. DIAMETER (Primary Heads)

Seed Shattering Percentage: 1 = 1-10 2 = 11-30 3 = OVER 30

6. SEED:

Color: 1 = WHITE 2 = CREAM 3 = GRAY 4 = GRAY WITH WHITE TIP
5 = GRAY STRIPED 6 = PURPLE STRIPED 7 = BROWN STRIPED 8 = BROWN BLOTCH
9 = OTHER (Specify) Purple-Brown

White (less than 1/100)

Hull Type: 1 = NORMAL 2 = THIN-HULLED 3 = STRIPED 4 = REDUCED

MM. WIDTH

MM. LENGTH

GRAMS PER 1000 SEED

7. SEEDLING VIGOR: (6 weeks after seeding at 2.5 cm. depth with ample moisture for germination; mean of 20 plants)

NUMBER OF NODES

CM. TALL (Soil Surface to Tip)

8. COLD RESISTANCE AT DIFFERENT STAGES AND TEMPERATURES:

200500036

☐ 2 Rosette:

☐ 3 Bolting:

1 = -10°C. 2 = -5°C. 3 = 0°C. 4 = 5°C. 5 = 10°C.

☐ 4 Flowering:

9. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant; 3 = Moderately Resistant)

<input type="checkbox"/> 0 RUST (Specify races) _____	<input type="checkbox"/> 0 PHYTOPHTHORA ROOT ROT	<input type="checkbox"/> 0 PYTHIUM ROOT ROT
<input type="checkbox"/> 0 FUSARIUM WILT	<input type="checkbox"/> 0 VERTICILLIUM WILT	<input type="checkbox"/> 0 CERCOSPORA LEAF SPOT
<input type="checkbox"/> 0 SCLEROTINA STEM ROT	<input checked="" type="checkbox"/> 3 ALTERNARIA LEAF SPOT	<input checked="" type="checkbox"/> 3 ALTERNARIA BUD ROT
<input type="checkbox"/> 0 BOTRYTIS HEAD ROT	<input type="checkbox"/> 0 RHIZOCTONIA BLIGHT	<input type="checkbox"/> 0 BACTERIAL BLIGHT
<input type="checkbox"/> 0 CUCUMBER MOSAIC	<input type="checkbox"/> 0 PHYLLODY	<input type="checkbox"/> 0 OTHER (Specify) _____

10. INSECT AND NEMATODE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

<input type="checkbox"/> 0 GREEN PEACH APHID	<input type="checkbox"/> 0 LEAF-CURL PLUM APHID	<input type="checkbox"/> 0 BLACK BEAN APHID
<input type="checkbox"/> 0 WESTERN FLOWER THRIPS	<input type="checkbox"/> 0 LYGUS BUGS	<input type="checkbox"/> 0 STINKBUGS
<input type="checkbox"/> 0 ROOT-KNOT NEMATODE	<input type="checkbox"/> 0 OTHER (Specify) _____	

11. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
Frost Hardiness	Centennial	Lodging	Centennial
Seed Shattering	Centennial	No. of Branches	Centennial
Seedling Vigor	Centennial		

12. GIVE THE FOLLOWING DATA FOR SUBMITTED AND A SIMILAR VARIETY.*

VARIETY	HULL ^{1/} (%)	PROTEIN ^{2/} (%)	OIL ^{3/} (%)	IODINE ^{4/} (%)	ACIDS ^{5/} SATURATED (%)	ACIDS UNSATURATED ^{6/}	
						OLEIC (%)	LINOLEIC (%)
Submitted	13.8	20.0	47.1	146	8.56	9.14	79.81
Similar	21.9	16.6	40.5	146	7.72	10.91	79.18
Name of Similar Variety	Centennial	Centennial	Centennial	Centennial	Centennial	Centennial	Centennial

*Hull, protein, and oil percentages expressed for whole undecorticated seed; acids expressed as percentages of oil.

REFERENCES

- Knowles, P.F. & M.D. Miller. 1965. Safflower. Cal. Ag. Exp. Sta. Circ. 532. 51 p.
 - Weiss, E.A. 1971. Castor, Sesame, and Safflower. Barnes & Noble, Inc. N.Y. 901 p.
- Nickerson's or any recognized color fan may be used to determine plant colors of described variety.

COMMENTS:

- Whole seed fiber analyses determined by wet chemistry methods performed by Midwest Laboratories, Inc., a certified laboratory of the National Forage Testing Association
- Whole seed protein determined by carbon/nitrogen analyses
- Oil % determined by Soxhlet extraction determination
- Determined by AOCS Recommended Practice Cd 1c-85 for calculation of iodine value
- Palmitic (C16:0) plus Stearic (C18:0) determined by gas liquid chromatography
- Determined by gas liquid chromatography of the fatty acid methylesters (AOCS Recommended Procedure Ce 1e-91)

Exhibit D: Optional Descriptive Information2003 Dryland Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (ST: 6/8/2005)	80	19.7	60	39.2	45.2	1655	749
S-541	90	20.7	65	42.5	42.0	1821	765
Centennial	77	21.0	69	42.3	42.4	1683	714
Morlin	82	21.3	60	41.7	38.8	1437	558
Finch	90	20.7	69	44.8	36.7	1721	631
Erlin	85	18.7	59	40.2	38.1	1521	580
LSD (0.05)	8.334	0.9754	8.748	0.6227	0.8964	195	74.2
CV (S/mean)	6.203	0.2977	8.77	0.906	1.444	7.307	7.315

Date Seeded: April 24, 2003

Date Harvested: September 9, 2003

¹ From July 12003 Irrigated Valley Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (ST: 6/8/2005)	85	26.3	70	39.7	48.3	2868	1388
S-541	92	27.0	70	39.5	42.1	2723	1149
Centennial	87	26.7	70	38.5	41.9	2515	1057
Morlin	93	27.7	69	41.2	40.8	2880	1177
Finch	93	25.3	71	45.0	38.0	3083	1173
Erlin	93	24.7	63	37.8	38.7	2485	967
LSD (0.05)	5.475	0.9172	5.872	1.537	1.108	291.6	128
CV (S/mean)	3.816	2.217	5.397	2.354	1.71	6.033	6.667

Date Seeded: May 15, 2003

Date Harvested: September 19, 2003

¹ From July 12003 Recrop Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (ST: 6/8/2005)	78	19.0	61	38.3	45.2	994	449
S-541	85	21.0	60	41.7	41.0	1144	471
Centennial	83	21.0	59	41.3	41.6	1157	482
Morlin	88	21.0	53	41.3	37.9	987	375
Finch	88	20.0	60	44.2	36.1	1266	458
Erlin	83	17.3	53	40.2	38.1	1199	457
LSD (0.05)	8.496	1.448	5.667	0.6987	1.318	185.1	79.22
CV (S/mean)	6.331	0.4446	5.95	1.028	2.124	9.998	11.29

Date Seeded: April 24, 2003

Date Harvested: September 9, 2003

¹ From July 1

2003 Dryland Safflower
Williston, North Dakota

Variety	Flower Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	82.0	49	38.5	45.0	1525
S-541	83.3	51	42.0	40.9	1787
Centennial	83.7	50	41.1	41.3	1920
Morlin	83.3	44	41.1	38.7	1564
Finch	82.0	50	45.3	36.5	1820
Erlin	81.0	43	38.9	37.7	1551
LSD (0.05)	1.0	6.1	.7	N/A	257.3
CV (S/mean)	.7	8.1	1.1	N/A	9.1

Date Seeded: April 29, 2003

Date Harvested: September 1, 2003

¹ From planting date

2003 Dryland Safflower
Huntley, Montana

Variety	Flower Date*	Height (in)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	204.0	21.2	35.3	42.0	249
S-541	204.0	21.6	35.2	39.1	237
Centennial	205.0	20.3	34.9	37.7	216
Morlin	201.7	18.7	37.4	34.1	241
Finch	203.7	18.0	36.8	29.9	255
Erlin	204.3	19.8	36.4	32.9	275
LSD (0.05)	.9	1.8	2.0	.8	85.8
CV (S/mean)	.3	5.5	3.4	1.4	18.2

* Julian Flower Date (July 23=204)

2002 Dryland Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	83	25.0	51	38.3	46.3	1111	493
S-541	95	25.3	56	38.5	42.3	1055	446
Centennial	80	26.7	53	37.3	43.5	1050	445
Morlin	78	25.7	48	39.5	39.7	979	388
Finch	37	26.3	47	42.8	36.6	727	274
Erlin	83	23.3	43	36.8	39.6	767	305
LSD (0.05)	9.65	0.9921	5.909	1.142	0.5498	197	77.76
CV (S/mean)	7.26	0.2965	7.809	1.75	0.8535	9.765	9.776

Date Seeded: May 18, 2002

Date Harvested: September 12, 2002

¹ From July 1

2002 Irrigated Valley Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	90	22.3	61	37.8	40.1	1812	731
S-541	88	23.7	60	37.2	38.5	1511	584
Centennial	82	23.3	61	34.8	38.0	1345	513
Morlin	85	24.7	53	38.5	35.3	1806	638
Finch	77	22.7	60	41.3	34.7	1699	589
Erlin	90	21.3	50	37.2	35.5	1535	554
LSD (0.05)	7.117	1.004	7.641	1.58	1.063	334.8	133.8
CV (S/mean)	5.048	0.3029	7.891	2.498	1.761	9.922	10.7

Date Seeded: May 14, 2002

Date Harvested: October 9, 2002

¹ From July 1

2002 Recrop Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	78	21.8	51	39.8	40.4	858	348
S-541	78	23.0	50	42.3	39.1	1136	444
Centennial	66	23.5	50	42.1	39.7	1100	438
Morlin	75	24.0	47	40.8	35.8	1053	377
Finch	50	22.3	43	46.4	33.9	800	273
Erlin	55	21.3	43	42.0	36.8	643	239
LSD (0.05)	12.89	1.636	6.370	0.7673	0.7776	262.5	102.4
CV (S/mean)	12.95	0.5741	9.723	1.293	1.512	18.47	19.75

Date Seeded: May 2, 2002

Date Harvested: September 12, 2002

¹ From July 1

2002 Dryland Safflower
Williston, North Dakota

Variety	Flower Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	77.0	39	39.2	43.9	1078
S-541	77.7	43	38.8	40.7	1236
Centennial	77.7	39	37.9	41.7	1046
Morlin	76.0	31	39.9	38.1	952
Finch	75.3	38	44.3	36.3	994
Erlin	72.3	34	38.3	36.9	789
LSD (0.05)	1.3	6.0	.9	.6	232.3
CV (S/mean)	1.1	9.6	1.3	1.0	12.5

Date Seeded: May 4, 2002

Date Harvested: September 13, 2002

¹ From planting date

2002 Dryland Safflower
Havre, Montana

Variety	Stand Percent	Flower Date ¹	Height (in)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	60	213.7	19.63	39.5	42.8	1586	679
S-541	64	213.7	20.79	41.5	40.3	1849	744
Centennial	46	218.0	19.24	40.3	40.5	1745	705
Morlin	55	218.0	18.39	38.9	36.7	1840	676
Finch	42	215.3	19.00	15.1	35.2	1384	487
Erlin	41	211.7	15.76	41.5	37.7	1262	476
LSD (0.05)	12.09	2.04	2.25	10.21	.85	277.70	N/A
CV (S/mean)	14.14	.58	7.91	15.68	1.44	10.24	N/A

¹ Julian Flower Date

2001 Dryland Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	92	25.7	77	35.5	40.1	669	269
S-541	88	27.0	75	35.4	38.9	657	256
Centennial	82	27.3	76	33.2	37.5	329	124
Morlin	78	28.3	71	36.0	33.0	251	83
Finch	83	26.7	77	36.1	31.3	588	185
Erlin	85	23.7	69	31.3	27.0	206	56
LSD (0.05)	14.57	1.528	9.970	1.335	1.345	200.6	80.82
CV (S/mean)	10.50	1.217	8.401	2.306	2.265	18.96	20.75

Date Seeded: May 10, 2001
¹ From July 1

Date Harvested: September 10, 2001

2001 Irrigated Valley Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	90	21.3	74	32.7	38.4	863	331
S-541	90	22.7	86	31.1	34.1	565	192
Centennial	82	23.3	83	30.4	33.6	293	98
Morlin	88	23.3	72	33.3	30.8	590	182
Finch	92	22.3	82	34.6	30.4	873	265
Erlin	83	20.0	69	30.8	28.8	465	134
LSD (0.05)	7.166	1.157	9.451	1.107	1.513	250.6	91.94
CV (S/mean)	5.030	.9656	7.438	2.058	2.704	17.89	19.08

Date Seeded: May 15, 2001
¹ From July 1

Date Harvested: September 10, 2001

2001 Recrop Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	88	24.0	57	37.6	40.5	626	236
S-541 (BT: 6/8/2005)	88	25.7	56	37.3	36.0	750	270
Centennial	77	27.3	54	36.9	38.0	367	129
Morlin	87	26.0	49	38.3	31.6	359	114
Finch	78	24.3	52	38.1	32.3	521	156
Erlin	83	23.3	46	31.4	26.8	209	56
LSD (0.05)	6.551	1.265	6.196	1.809	.8035	146	53.28
CV (S/mean)	4.928	1.020	7.264	2.967	1.457	14.52	15.59

Date Seeded: May 10, 2001

Date Harvested: September 10, 2001

¹ From July 1

2001 Dryland Safflower
Williston, North Dakota

Variety	Flower Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A
<91B3842> 'Nutrasaff'	79	65	37.8	42.2	1332
S-541 (BT: 6/8/2005)	81	64	38.0	39.2	1469
Centennial	81	58	37.0	38.7	1075
Morlin	80.3	53	38.2	35.8	1095
Finch	79	61	40.8	31.7	1404
Erlin	77	63	34.9	32.3	855
LSD (0.05)	1.1	9.5	.9	.9	169.9
CV (S/mean)	.9	10.0	1.4	1.6	7.9

Date Seeded: May 3, 2001

Date Harvested: September 5, 2003

¹ From planting date

2000 Dryland Safflower – 4 row
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	88	20.7	56	39	45.2	1958	868
Centennial (BT: 6/8/2005)	80	23.7	55	40.3	43.3	1578	675
Morlin	93	22.7	54	40.5	40.2	1725	693
Finch	90	20.0	57	44.5	37.0	2145	795
Erlin	85	17.7	53	38.5	38.4	1486	571
LSD (0.05)	6.339	1.451	9.759	.6073	1.322	191.5	79.4
CV (S/mean)	4.552	1.034	10.73	.9140	2.164	6.478	7.172

Date Seeded: April 27, 2000

Date Harvested: September 8, 2000

¹ From July 1

2000 Valley Safflower – 3 row
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	88	22.0	70	34.9	41.0	1272	522
Centennial (st: 6/8/2005)	85	23.7	65	34.9	37.1	846	313
Morlin	92	21.0	72	39.2	34.1	1724	588
Finch	90	21.3	65	32.7	33.6	1357	458
Erlin	92	18.0	63	33.4	33.3	1142	380
LSD (0.05)	7.11	1.33	8.551	2.040	2.679	390.3	140.7
CV (S/mean)	4.90	1.00	7.498	3.618	5.018	15.78	17.43

Date Seeded: May 2, 2000

Date Harvested: September 7, 2000

¹ From July 1

2000 Valley Safflower – 4 row
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	90	19.3	68	34.7	40.6	1527	621
Centennial (st: 6/8/2005)	75	22.7	66	33.4	36.3	691	251
Morlin	77	22.3	74	33.8	33.3	1374	458
Finch	87	19.7	71	37.8	33.6	1742	586
Erlin	82	17.0	64	32.7	32.1	1124	363
LSD (0.05)	6.984	1.222	5.880	1.845	1.624	335.1	119.5
CV (S/mean)	5.021	.9289	5.067	3.380	3.089	12.66	14.02

Date Seeded: May 2, 2000

Date Harvested: September 8, 2000

¹ From July 1

2000 Recrop Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ¹	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	93	14.3	43	39.2	43.4	819	356
Centennial (st: 6/8/2005)	90	14.7	46	41.2	42.1	1032	440
Morlin	92	14.7	35	39.9	37.8	654	247
Finch	81	24.7	39	45.1	36.9	678	251
Erlin	79	24.7	36	39.8	37.5	671	252
LSD (0.05)	1.59	5.54	8.09	.779	1.25	428.6	172.3
CV (S/mean)	1.19	3.78	12.59	1.16	2.11	32.37	35.57

Date Seeded: April 25, 2000

Date Harvested: September 8, 2000

¹ From July 1

2000 Dryland Safflower
Williston, North Dakota

Variety	Flower Date ^{/1}	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A
<91B3842> 'Nutrasaff'	81.0	54	38.2	40.4	1459
Centennial (BT: 6/8/2005)	83.7	53	39.6	38.3	1355
Morlin	82.3	50	40.5	36.4	1340
Finch	79.3	47	42.6	32.6	1719
Erlin	78.0	39	37.5	33.7	1130
LSD (0.05)	1.3	6.5	.9	1.3	216.9
CV (S/mean)	1.0	8.6	1.3	2.2	9.0

Date Seeded: May 1, 2000

Date Harvested: September 13, 2000

^{/1} From planting date

2000-2003 Average Dryland Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ^{/1}	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	85.8	22.8	61	38.0	43.5	1348	595
Centennial (BT: 6/8/2005)	79.8	24.7	63	38.3	41.2	1160	490
Morlin	82.8	24.5	58	39.4	37.9	1098	431
Finch	75.0	23.4	62	42.1	35.7	1295	471
Erlin	84.5	20.9	56	36.7	35.8	995	378
LSD (0.05)	9.723	1.2	8.596	0.926	1.028	196.025	78.045
CV (S/mean)	7.128	0.7	8.927	1.469	1.682	10.627	11.253

^{/1} From July 1

2000-2003 Average Irrigated Valley Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ^{/1}	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff'	88.8	22.3	68	36.2	41.9	1768	768
Centennial (BT: 6/8/2005)	81.5	24.0	70	34.3	37.5	1211	480
Morlin	85.8	24.5	67	36.7	35.1	1663	614
Finch	87.3	22.5	71	39.7	34.2	1849	653
Erlin	87.0	20.8	62	34.6	33.8	1402	505
LSD (0.05)	6.685	1.1	7.211	1.517	1.327	303.025	118.31
CV (S/mean)	4.729	1.1	6.448	2.572	2.316	11.626	12.617

^{/1} From July 1

2000-2003 Average Recrop Safflower
Sidney, Montana

Variety	Stand Percent	Bloom Date ^{/1}	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A	Oil Yield Lbs/A
<91B3842> 'Nutrasaff' (BT:6/8/2005)	84.3	19.8	53	38.7	41.7	824	347
Centennial	79.0	21.6	52	40.4	39.6	914	372
Morlin	85.5	21.4	46	40.1	35.8	763	278
Finch	74.3	22.8	48.5	43.5	34.2	816	285
Erlin	75.0	21.7	44.5	38.4	34.8	681	251
LSD (0.05)	7.382	2.5	6.581	1.014	1.037	255.55	101.8
CV (S/mean)	6.349	1.5	8.882	1.61	1.80	18.8395	20.55

^{/1} From July 1

2000-2003 Average Dryland Safflower
Williston, North Dakota

Variety	Flower Date ^{/1}	Height (cm)	Test Wt Lbs/bu	Oil Content Percent	Yield Lbs/A
<91B3842> 'Nutrasaff' (BT:6/8/2005)	79.7	52	38.4	42.9	1349
Centennial	81.5	50	38.9	40.0	1349
Morlin	80.5	45	39.9	37.3	1238
Finch	78.9	49	43.3	34.3	1484
Erlin	77.1	45	37.4	35.2	1081
LSD (0.05)	1.18	7.03	0.85	N/A	219.10
CV (S/mean)	0.93	9.08	1.28	N/A	9.63

^{/1} From planting date

Nutrasaff (BT:6/8/2005)
<91B3842> (2002-2003) Breeders Seed
Fatty Acid Composition

SAMPLE NAME	C16:0 2.6	C18:0 4.5	C18:1 4.7	C18:2 11.2	C20:0	C22:0	C24:0	% SAT
2003 Huntley	7.1	2.2	11.3	77.2	0.3	0.3	0.1	10.0
2003 Sidney	6.9	2.2	10.0	79.1	0.3	0.2	0.1	9.8
2002 Sidney	6.7	1.9	9.6	79.3	0.3	0.2	0.1	9.3
Average	6.9	2.1	10.3	78.5	0.3	0.2	0.1	9.7

Protein and Oil Comparisons of 91B3842 (Nutrasaff) Safflower to Centennial
and Finch Safflower

Variety	Year	% Meal ¹ Protein	% Seed ² Oil
(BT: 6/8/2005) (<91B3842> 'Nutrasaff')	2003-Dryland	34.0	47.1
Finch	2003-Dryland	22.3	36.4
Centennial	2003-Dryland	23.7	40.5
LSD (.05)		3.90	5.13
CV SE/Mean		3.7	3.2

¹⁾ By C/N analysis (Leco)

²⁾ By Soxhlet extraction determination

Variety	Year	% Meal ¹ Protein	% Seed ² Oil	Whole seed Protein % ³	Whole seed Fiber % ³	Meal Protein % ⁴
(BT: 6/8/2005) (<91B3842> 'Nutrasaff')	2003-Irrigated	32.8	52.0	20	13.8	41.7
Finch	2003-Irrigated	24.9	37.7	15.9	24.2	25.5
Centennial	2003-Irrigated	27.4	39.2	16.6	21.9	27.3
LSD (.05)		4.83	2.78			
CV SE/Mean		4.3	1.7			

¹⁾ By C/N analysis (Leco)

²⁾ By Soxhlet extraction determination

³⁾ Midwest Laboratories, Inc.

⁴⁾ Based on weight after subtraction of oil %

Protein and Oil Content of 91B3842 (Nutrasaff) Breeders Seed (2002-2003)

Location	Year	% Meal ¹ Protein	% Seed ² Oil	Whole seed Protein % ³	Whole seed Fiber % ³	Meal Protein % ⁴
Sidney	2002-Irrigated	39.3	48.4	NA	NA	NA
Sidney	2003-Irrigated	35.9	51.1	19.5	14.6	39.9
Huntley	2003-Dryland	38.6	49.6	20.6	11.1	40.9

¹⁾ By C/N analysis (Leco)

²⁾ By Soxhlet extraction determination

³⁾ Midwest Laboratories, Inc.

⁴⁾ Based on weight after subtraction of oil %

Disease Rating
Irrigated Valley Safflower
Sidney, Montana

Variety	1999	2001	2003	Mean
<91B3842> 'Nutrasaff' (BT: 6/8/2005)	3.33	4.0	2.38	3.24
Centennial	5.33	4.7	2.63	4.22
Morlin	3.67	4.0	2.38	3.35
Finch	3.67	3.3	1.63	2.87
Erlin	5.67	5.3	2.75	4.57
LSD (0.05)	1.89	1.69	1.07	1.55
CV (S/mean)	26.67	14.11	29.46	23.41

Relative Disease Rating, 9=most susceptible, 1=least susceptible

Principal disease noted was *Alternaria* Leaf Spot

Incited by *Alternaria carthami*

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Montana State University	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 91B3842	3. VARIETY NAME Nutrasaff
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) Technology Transfer Office 900 Technology Blvd, Suite A <i>304 Montana Hall</i> Bozeman, MT 59718 <i>P.O. Box 192460</i> Bozeman, MT 59717 <i>(8768/2005 per applicant's authorization)</i>	5. TELEPHONE (Include area code) <i>2752</i> (406) 994- 2752 <i>(8768/2005)</i>	6. FAX (Include area code) <i>4152</i> (406) 994- 2893 <i>(8768/2005)</i>
7. PVPO NUMBER <i>200500036</i>		
8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☐ YES ☒ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☒ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☒ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Nutrasaff safflower originated and was developed through breeding and selection research conducted by Dr. Jerald W. Bergman, Safflower Breeder, for the Montana Agricultural Experiment Station Research Project No. MONB00558 Accession No. 0174701 Breeding and Improvement of Oilseed Crops for Eastern Montana.

All rights to 'Nutrasaff' have been assigned to the Office of the Vice President for Research and Technology Transfer serving as the technology transfer agency for the Montana Agricultural Experiment Station.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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